

**Electronic Filing System (EFS) Data**  
**Electronic Patent Application Submission**  
**USPTO Use Only**

EFS ID: 14166  
Application ID: 09683983  
Title of Invention: OPTIMIZED BLOCKING IMPURITY  
PLACEMENT FOR SIGE HBTs  
First Named Inventor: Basanth Jagannathan  
Domestic/Foreign Application: Domestic Application  
Filing Date: null  
Effective Receipt Date: 2002-03-08  
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Filing Type: new-utility  
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Attorney Docket Number: BUR920020020  
Digital Certificate Holder: cn=Mark F. Chadurjian, ou=Registered Attorneys, ou=Patent and  
Trademark Office, ou=Department of Commerce, o=U.S.  
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# TRANSMITTAL FORM



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Attorney Docket  
Number:

BUR920020020

Submission Type: Utility  
Patent Filing

## OPTIMIZED BLOCKING IMPURITY PLACEMENT FOR SIGE HBTs

First Named Inventor: Basanth Jagannathan

### SUBMITTED BY

Name:	Mr. Mark F. Chadurjian
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### Attached Files:

declaration	bur920020020dec1.tif
declaration	bur920020020dec2.tif
fee-transmittal	bur920020020fee.xml
specification	BUR920020020.xml

bur920020020apds.xml

bur920020020dec2.tif

Year	Country	Population (millions)	Urban population (millions)	Urban population (%)	Population growth rate (%)	Urban population growth rate (%)	Urban population growth rate (1975-2000)
1975	China	958	195	20.3	1.5	1.5	1.5
1980	China	1000	210	21.0	1.5	1.5	1.5
1985	China	1050	225	21.4	1.5	1.5	1.5
1990	China	1100	240	21.8	1.5	1.5	1.5
1995	China	1150	255	22.2	1.5	1.5	1.5
2000	China	1200	270	22.5	1.5	1.5	1.5
2005	China	1250	285	22.8	1.5	1.5	1.5
2010	China	1300	300	23.1	1.5	1.5	1.5
2015	China	1350	315	23.3	1.5	1.5	1.5
2020	China	1400	330	23.6	1.5	1.5	1.5
2025	China	1450	345	23.8	1.5	1.5	1.5
2030	China	1500	360	24.0	1.5	1.5	1.5
2035	China	1550	375	24.2	1.5	1.5	1.5
2040	China	1600	390	24.4	1.5	1.5	1.5
2045	China	1650	405	24.5	1.5	1.5	1.5
2050	China	1700	420	24.7	1.5	1.5	1.5
2055	China	1750	435	24.9	1.5	1.5	1.5
2060	China	1800	450	25.0	1.5	1.5	1.5
2065	China	1850	465	25.1	1.5	1.5	1.5
2070	China	1900	480	25.3	1.5	1.5	1.5
2075	China	1950	495	25.4	1.5	1.5	1.5
2080	China	2000	510	25.5	1.5	1.5	1.5
2085	China	2050	525	25.6	1.5	1.5	1.5
2090	China	2100	540	25.7	1.5	1.5	1.5
2095	China	2150	555	25.8	1.5	1.5	1.5
2100	China	2200	570	25.9	1.5	1.5	1.5

**Comments:**

Assignee: International Business Machines Corporation, Armonk, New York 10504

Year	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	

# FEE TRANSMITTAL

Electronic Version 1.1.0

Stylesheet Version: 1.0

*Patent fees are subject to annual revisions on or about October 1st of each year..*

Large Entity

**TOTAL FEES AUTHORIZED: \$ 824**

The commissioner is hereby authorized to charge indicated processing and/or publication fees and credit any overpayments to:

Deposit Account Number: 090456



Deposit Account Name: International Business Machines Corporation

Charge Any Additional Fee Required Under 37 C.F.R. Sections 1.16 and 1.17.

Charge Assignment Fees Required Under 37 C.F.R. Section 1.21 (h).

## SUBMITTED BY

Authorized Name:

Mark F. Chadurjian

Electronic Signature Mark:

Mark F. Chadurjian / s /

Date Signed:

20020308

## BASIC FILING FEE

Fee Description	Fee Code	Fee Paid
Utility Filing Fee	101	\$ 740

Subtotal For Basic Filing Fee: \$ 740

## EXTRA CLAIM FEES

	Fee Code	Fee	Extra Claims	Fee Paid
Total Claims: 20	103	\$ 18	0	\$ 0
Independent Claims: 4	102	\$ 84	1	\$ 84

Subtotal For Extra Claims Fees: \$ 84

[illegible]